

INTERNATIONAL SEARCH REPORT

Application No
PCT/NL2004/000564

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01D46/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D G01N F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/045386 A1 (WACKS WILLIAM ET AL) 29 November 2001 (2001-11-29) page 2, paragraph 40 - page 3, paragraph 43 figures 1,2	1-22
X	US 5 320 752 A (CLACK ROBERT A ET AL) 14 June 1994 (1994-06-14) abstract; figures	1-22
A	US 4 483 368 A (PANTHOEFER RUDOLF) 20 November 1984 (1984-11-20) the whole document	1-15
X	US 6 135 460 A (WISE ET AL) 24 October 2000 (2000-10-24) the whole document	23
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

2 February 2005

Date of mailing of the international search report

10. 02. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Hilt, D

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 475 312 A (JAPAN PIONICS CO., LTD) 18 March 1992 (1992-03-18) the whole document -----	23

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NL2004/000564

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; It is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-22

An in-line filter provided with a substantially elongated filter housing in which filter material is included, wherein the fastening means are quick change couplings; a respective quick change coupling having a coupled condition and an uncoupled condition.

2. claim: 23

A filter provided with a filter housing in which filtering material is present for removing water, oxygen and hydrocarbons from a gas flow, while the filtering material does not contain alkali metals or alkaline earth metals.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Application No

PCT/NL2004/000564

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001045386 A1	29-11-2001	US 2004035777 A1 AU 4187601 A CN 1419467 T EP 1261406 A1 JP 2003525113 T TW 496753 B WO 0164312 A1	26-02-2004 12-09-2001 21-05-2003 04-12-2002 26-08-2003 01-08-2002 07-09-2001
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EP 0475312 A	18-03-1992	JP 2980425 B2 JP 5004809 A DE 69124172 D1 DE 69124172 T2 EP 0475312 A2 US 5194233 A US 5294422 A	22-11-1999 14-01-1993 27-02-1997 30-04-1997 18-03-1992 16-03-1993 15-03-1994